## Task 1:

Your task is to implement a small component that enables manually removing attendance information for a student.

Done: https://github.com/mehuloswal/Attendance-App

## Design Writeup:

To address the challenge of managing attendance removal and recovery, we'll implement a system that supports the following features:

- 1. Removal of Student Attendance:
  - a. We'll provide course staff with an interface to mark attendance records as removed. Instead of deleting the records, we'll update a field in the database, setting the flag *isDeleted* to true.
  - b. Rows with this flag set to true will not be displayed in the user interface.
  - c. Additionally, course staff can manage attendance by rescanning the QR code or changing the *isDeleted* flag to false and removing the *deletionExplanation*.
- 2. Ability to Recover Student Attendance:
  - a. Since we're not hard-deleting attendance records, we can easily provide a mechanism to recover them. We'll keep track of the removal status in the database, allowing us to revert the removal if needed.
- 3. Ability to Explain Attendance Progression:
  - a. We'll include a field in the database schema to explain why the attendance was removed.
  - b. Additionally, we'll provide functionality to display the history of attendance for a particular student, retrieving the history based on the student's *UIN* and *ClassID*.
- 4. Assure backward compatibility of the system as you create this design:
  - a. To maintain backward compatibility, we'll add two new fields (*isDeleted* and *deletionExplanation*) to the MongoDB collection to track removals.
  - b. The existing APIs will remain unchanged, ensuring that the system continues to function as expected.
  - c. The modular structure of the codebase allows us to seamlessly integrate these new features without disrupting existing functionality.

## Sample Document:

```
_id: ObjectId('661a2e885927fcd5fe69cd5e')
uin: "123456789"
classId: "04202024"
takenBy: "John Doe"
shortcode: "101"
date: 2024-04-20T09:00:00.000+00:00
isDeleted: true
__v: 0
deletionExplanation: "Test2 ABC"
```